



For Ecology Use (Date Stamp) RECEIVED

AUG 292011

Water Resources Program **Application for a Water Right Permit**

DEPARTMENT OF ECOLOGY - CENTRAL REGIONAL OFFICE

WRIAChelon

ECY Coding: 001-001-WR1-0285-000011

SURFACE WATER ☐ GROUND WATER ☑ PERMANENT	
☐ TEMPORARY ☐ SHORT TERM ☐ DROUGHT	
Collow the attached instructions. Attach additional shorts as passes and	

Section 1. APPLICANT	CHIKAT	MIN	
Applicant/Business Name: Terry L.	Witchell (Pearmont Inc.)	Phone No: (509) 679-8840	Other No:
Address: 7950 Kinney Rd. (P.O. Bo	ox 237)		
City: Dryden		State: WA	Zip:98821
Email Address (optional):			
Contact Name (if different from abo	ove): Cory Kamphaus	Phone No: (509)548-9413	Other No:
Relationship to Applicant: Potential	lessee.		
Address: 7051 Highway 97			
City: Peshastin		State: WA	Zip: 98847
Email Address (optional): cory@mi	d-columbia-coho.net		
Legal Land Owner or Part Owner N Ferry L. Witchell (Pearmont Inc.) Address:	ame of the Proposed Place of Use:	Phone No: (509) 679-8840	Other No:
7950 Kinney Rd. (P.O. Box 237)		T	
City: Dryden	State: WA	Zip:98821	
Email Address (optional):			
nticipated length of time to com	T OF INTENT our proposed project: Coho acclimate plete your project: By September which water will be applied to a be	of 2013	
or each.			
Purpose(s) of Use	Rate (check one box only) ⊠Cubic Feet per Second (CFS) □Gallons per Minute (GPM)	Acre-Feet per Year (AF/YR) (If known)	Period of Use (Continuously or Seasona
Fish acclimation	2.3	419.7	Seasonal

Priority Date 8' 29.11

Fee Paid: \$230,-

	equest for	a short terr	ter Use n project	(less than i	four months a	nd non-recurri	ng)? 🗌 YES 🖾 NO
s this rec	quest for a	temporary	permit? [□YES ⊠	NO		
f yes to	either ques	stion above,	, indicate	the dates tl	hat the water	will be needed	
ROM:	TO:						
		DINT OF		RSION	OR WITH	HDRAWA	L
		Vater Sou			B.)	If Ground V	Water Source
		ek 🗌 Rive				Well(s) 🗌 O	ther:
Source	Name: Ch	nikamin Cre	eek		We	Il diameter &	depth:
		vawa River			Nui	mber of propos	sed points of withdrawal:
THOUGH	ly to. <u>Cmv</u>	vawa Kivei			Do	you have an e	xisting well? YES NO
Number of proposed diversion points: 1						vailable, attacl	h Water Well Report and pump tes
		xisting dive				ll Tag ID No	
					Description		
	Parcel No. 172100005		/4 1/4 SW	Section 21	n Township 28N	Range 17E	County Chelan
	Lot(s)		Bloc	k(s)		Subdivision	
×01							al to the nearest section corner:
	Parcel No.	1	/4 1/4	T G-4:-			
<u>F</u>	arcer 140.		/4 /4	Section	n Township	Range	County
F	Lot(s)		Bloc			Range Subdivision	County
	Lot(s)		Bloc	k(s)		Subdivision	
If know	Lot(s)	e distances	Bloc in feet fro	k(s)	nt of diversion	Subdivision	County al to the nearest section corner:
If know	Lot(s) on, enter the cet (□ No	e distances	Bloc in feet from th) and	k(s) om the pointeet ([nt of diversion	Subdivision n or withdrawaest)	
If know fe	Lot(s) on, enter the eet (□ Note (□NW)	e distances	Bloc in feet fro th) and NE	k(s) om the point feet ([nt of diversion Bast/ Worner of Section	Subdivision n or withdrawaest)	al to the nearest section corner:
If know for the from the form	Lot(s) on, enter the eet (No	e distances orth/ Sou SW N two points of nd on which legal author	Block in feet from th) and NE	k(s) m the point feet ([]) consider the constant feet ([]) consider the constant feet ([]) constant feet ([nt of diversion East/ We worner of Section attach addition of diversion/velication for us	Subdivision n or withdrawa est) on nal information withdrawal is 1	on a separate sheet of paper. ocated? YES NO land? YES NO
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If know for the form	Lot(s) In, enter the eet (No	e distances orth/ Sour SW N two points of ad on which legal author name(s), ad LACE O he legal de- act, proper	Block in feet from th) and NE	k(s) om the point feet ([nt of diversion East/ We briner of Section attach addition of diversion/velication for use mber: Terry 1 7950 1 Dryde	Subdivision n or withdrawa est) on nal information vithdrawal is lee of another's L. Witchell (Per, WA 98821) ich the water r, or copy it ca	on a separate sheet of paper. ocated? YES NO land? YES NO earmont Inc.) O. Box 237) (509) 679-8840 will be used) taken from arefully in the space

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WRIA.

Fee Paid:

Check No:

Priority Date

Do you own all the lands on which the proposed place of use is located? XYES NO.
If no, do you have legal authority to make this application for use of another's land? YES NO
Provide owner name(s), address, and phone number: Terry L. Witchell (Pearmont Inc.)
7950 Kinney Rd. (P. O. Box 237)
Dryden, WA 98821 (509) 679-8840
Are there any other water rights or claims associated with this property or water system? YES NO
If yes, provide the water right and/or claim numbers:

Attach a map of your project showing the point of diversion/withdrawal and place of use. If platted property, be sure to include a complete copy of the plat map. BEAVER POND COMPLEX MINNOW CREEK NORTH 2440 2490' MINNOW FOND INTAKE CHIKAMINIMINIOW DRAFT

Section 5. WATER SYSTEM DESCRIPTION

For Ecology Use	APPLICATION NO:		SEPA: Exempt/Not Exempt
	Fee Paid:	Check No:	ECY Coding: 001-001-WR1-0285-000011
Data Paturnad		Dr. Priority Data	Dv. WDIA-

Describe your proposed water system (include type and size of devices used to divert or withdraw water from source): An intake structure is planned to be prefabricated and placed in the Chikamin Creek stream bank. It would conform to the existing bank profile and would not impede river flow or impact flood storage capacity. The intake uses a fixed, sloped screen with an air or water backwash system to flush debris off the screen and will meet agency (s) screen criteria for sweeping flow, approach velocity and mesh size. Pipe (120 ft.) would be buried from the intake to a pond constructed alongside Chikamin Creek. A 70 foot long discharge channel would return water from the pond to the creek. It would be rock lined to prevent erosion. (See attached Chikamin Creek water system impact evaluation)

Section 6. DOMESTIC WATER SUPPLY SYSTEM INFORMATION (Complete A or B, and C below)

B.) Municipal Water Systems only

	(defined under RCW 90.03.015)
Projected number of connections to be served:	Present population to be served water:
Type of connections: (e.g., home, recreational cabin)	Estimate future population to be served:(20 year projection)
C.) Water System Planning	
Do you have a Water System Plan approved by th Water Division? YES NO If yes, date plan was approved///	washington State Department of Health, Drinking Water System Number:
Name of water system:	
Are you within the service area of an existing wat	er system? YES NO
If yes, explain why you are unable to connect to the	he system:
Section 7. IRRIGATION/STOCKW	ATER/OTHER FARM USES
<u>Irrigation</u>	
Total number of acres requested to be irrigated und NOTE: Outline the area to be irrigated on your at	
Stockwater	
List number and kind of stock:	
Is the proposed project for a dairy farm? YES [□NO
Other Proposed Farm Uses Describe all proposed uses:	
JUSTITUTE ALL PROPUSED ASSOCIATION	

Family Farm Water Act (RCW 90.66):

A.) Domestic Water Systems only

Calculate the acreage in which you have a controlling interest, including only:

- Acreage irrigated under water rights acquired after December 8, 1977,
- Acreage proposed to be irrigated under this application, and
- Acreage proposed to be irrigated under other pending application(s).

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	of head and proposed capacity in kilowatts:
	o which power is to be applied:
Mining/Industria Describe use, met	al Use chod of supplying and utilizing water:
Other Use	
C-4-0 V	VATED STODAGE
Section 9. V	VATER STORAGE
	a dam, dike, or other structure to retain or store water? YES NO
	g to store more than 10 acre-feet of water? YES NO
Will the water dep	pth be 10 feet or more? YES NO
If you answered y	res to any of the above questions, please describe:
deepest point and s	ne storing 10 acre-feet or more of water and/or if the water depth will be 10 feet or more at the ome portion of the storage will be above grade, you must also complete an Application for taken a Reservoir and a Dam Construction Permit and Application.
Section 10.	DRIVING DIRECTIONS
Provide detailed of	driving directions to the project site: From Leavenworth travel west on Hwy 2 for 15.1
	t onto Hwy 207. Follow 207 for 4.4 miles and turn right onto Wye Con road. Go to next
	es) and turn right onto Co. Hwy 22 (Chiwawa Loop Rd.). At approximately 0.8 miles,
	wawa River Rd. After passing Fish Lake Rd. on your left, travel approximately 9.2
	r Chikamin Creek bridge. Site is on the east side of the road.
	driving directions

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Section 11. REQUIRED SIGNATURES

I certify that the information provided in this application is true and accurate to the best of my knowledge. I understand that in order to process my application, I grant staff from the Department of Ecology access to the site for inspection and monitoring purposes. Even though the employees of the Department of Ecology may have assisted me in the preparation of the above application, all responsibility for the accuracy of the information rests with me, the applicant.

Cory Kamphans Tenny Witchell	for the accura	All the	ests with me, the appl	8-11-1
Print Name (Applicant or authorized represe	entative)	Signature		Date 8-11-1
Print Name (Legal Owner or Part Owner Pla	ace of Use)	Signature		Date
Print Name (Legal Owner or Part Owner Pla	ace of Use)	Signature		Date
Print Name (Legal Owner or Part Owner Pla	ace of Use)	Signature		Date
located:		Please check the reg	ion in which the proje	ct is
*Submit your application to: DEPARTMENT OF ECOLOGY CASHIERING SECTION PO BOX 47611	15 W Y 200 Yakima	Regional Office akima Avenue, Suite , WA 98902 75-2490	Eastern Regiona 4601 N. Monros Spokane, WA 9 (509) 329-3400	e
	3190 -	rest Regional Office 160 th Avenue SE e, WA 98008-5452 49-7000	Southwest Region PO Box 47775 Olympia, WA 9 (360) 407-6300	

If you have questions about your application, contact the Water Resources program at the regional office in

For	
Ecology Use	APPLICATION
	Fee Paid:



which your project is located.

CHIKAMIN SURFACE WATER WITHDRAWAL IMPACT ANALYSIS

Analysis from:

Mid-Columbia Coho Restoration Project, Draft EIS, Appendix 10. Effect of Surface Water Withdrawals on Listed Fish

Report Prepared by:

Randolph Ericksen, Clark Watry, Ian Courter, Jay Vaughan and Shadia Duery Cramer Fish Sciences

600 NW Fariss Road

Gresham, Oregon 97030

November 2010

Chikamin Creek is a tributary of the Chiwawa River which accounts for 44% of the Chinook, 12% of the steelhead, and 78% of the bull trout spawning redds counted in the Wenatchee Subbasin (see Appendix 9 of the EIS for more information). Chinook spawning has not been documented in Chikamin Creek although summer steelhead and bull trout have been documented spawning in the stream. Chikamin Creek on average represents 3% of the subyearling Chinook, 8% of the subyearling and 5% of the yearling rainbow/steelhead abundance estimated in the Chiwawa drainage. Chikamin Creek also represented 13% of the juvenile bull trout abundance in the Chiwawa drainage in 2007, but the survey does not include many upper tributaries where bull trout likely reside (Hillman et al. 2008). A new pond is proposed to be constructed next to Chikamin Creek and would be fed with surface water from the creek. The affected reach would include Chikamin Creek from the intake downstream about 450 feet of channel to the discharge pipe (Figure 1).

Model inputs for the Chikamin analysis (Table 1) were based on onsite topographic survey and data from a stream gage located immediately downstream of the site. Topographic data from the

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affected reach of the creek (Figure 1) was collected during the fall of 2009. A second survey was conducted on April 27, 2010 to gather additional flow and channel data.

Table 1. Topographic survey dates and model inputs used in the River2D model to evaluate surface water withdrawal impacts to listed fish.

Total Control of the	Chikamin	Napeequa
Channel topography survey dates	Oct. 19-20, 2009	Oct. 5 - Nov. 5, 2009
Date water edge surveyed	Oct. 19, 2009	Oct. 7, 2009
Flow during water edge survey	13.7	34.4
Date second survey	Apr. 27, 2010	Apr. 26-27, 2010
Flow during second survey	81.6	242
Minimum withdrawal (cfs)	1.5	1.7
Maximum withdrawal (cfs)	2.3	2.6
Withdrawal period	Mid March to early May	Mid-March to early May
Mean flow range (cfs)	20-68	109-372
Extreme low flow (cfs)	8.5	47

Surface water is proposed to be withdrawn from Chikamin Creek from mid March through early May to provide water to the acclimation pond. A minimum flow of 1.5 cfs is required for coho acclimation at this site (Appendix 2 of the EIS) and assumed withdrawals 50% greater (2.3 cfs) for modeling purposes. Juvenile Chinook salmon, and adult and juvenile steelhead and juvenile and adult bull trout are expected to be present in Chikamin Creek during this time (Appendix 9 of the EIS). Daily flows typically start to increase around mid March and peak between mid May and early June (Figure 2). Mean flows during the acclimation period ranged between 20 and 68 cfs between 2000 and 2008, with the 10th percentile flows as low as 8.5 cfs and 90th percentile as high as 105 cfs.

The model results indicated that the amount of habitat in the affected reach of Chikamin Creek would generally increase with flow during the spring acclimation period (Figure 3). However, the amount of WUA of habitat for all species was very small (0.1% or less) compared to the wetted channel area (Table 2). This is due primarily to a lack of finer substrate (gravel and small cobbles) in this reach. As a result, the model did not predict any WUA for steelhead spawning in the affected reach at any flow levels (Table 2). Because WUA generally increased with flow, the modeled water withdrawal of 2.3 cfs tended to reduce the WUA of habitat for all species. The reduction due to the withdrawal was less than one square foot of habitat for all species. Thus, the maximum amount of water proposed for withdrawal would result in a very small reduction in WUA for all species.

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